

Title (en)

Piezoelectric actuator.

Title (de)

Piezoelektrischer Antrieb.

Title (fr)

Organe d'actionnement piezoélectrique.

Publication

EP 0479328 A2 19920408 (EN)

Application

EP 91117052 A 19911007

Priority

JP 26893990 A 19901005

Abstract (en)

In a piezoelectric actuator of the type which has a plurality of grooves on the outer side surface of the actuator body, mechanical reliability of the actuator is enhanced by providing grooves also in the respective layers of a material exhibiting electrostrictive effect located over and below the top and the bottom ends of the actuator. Moreover, a further improvement of mechanical strength can be attained by providing additional grooves onto the outer most grooves. <IMAGE>

IPC 1-7

H01L 41/08

IPC 8 full level

H10N 30/50 (2023.01)

CPC (source: EP US)

H10N 30/508 (2023.02 - EP US)

Cited by

EP1239525A3; DE102005061816B4; EP1764844A1; EP1944814A1; EP2124268A4; US7449077B2; US8358051B2; US8704430B2; WO2006042791A1; WO03105246A3; WO2007031700A1; WO0079615A1; EP0844678B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0479328 A2 19920408; EP 0479328 A3 19920805; EP 0479328 B1 19950524; DE 69109990 D1 19950629; DE 69109990 T2 19951012; JP H04214686 A 19920805; US 5237239 A 19930817

DOCDB simple family (application)

EP 91117052 A 19911007; DE 69109990 T 19911007; JP 30219390 A 19901107; US 77233391 A 19911007